PATENT COOPERATION TREATY From the INTERNATIONAL SEARCHING AUTHORITY REC'D 0 8 AUG 2006 G.E. EHRLICH (1995) LTD. 11 MENACHEM BEGIN STREET RAMAT GAN, ISRAEL 52 521 WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1) Date of mailing 03 AUG 2006 (day/month/year) Applicant's or agent's file reference FOR FURTHER ACTION 29953 See paragraph 2 below International application No. International filing date (day/month/year) Priority date (day/month/year) PCT/IL05/01173 09 November 2005 (09.11.2005) International Patent Classification (IPC) or both national classification and IPC 01 June 2005 (01.06.2005) IPC: A61K 49/00(2006.01) USPC: 424/9.1 Applicant SPECTRUM DYNAMICS (ISRAEL) LTD. 1. This opinion contains indications relating to the following items: Box No. I Basis of the opinion Box No. II Priority Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability Box No. IV Lack of unity of invention Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial Box No. Vapplicability; citations and explanations supporting such statement Box No. VI Certain documents cited Box No. VII Certain defects in the international application Certain observations on the international application Box No. VIII 2. FURTHER ACTION If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220. 3. For further details, see notes to Form PCT/ISA/220. Name and mailing address of the ISA/ US Date of completion of this opinion Mail Stop PCT, Attn: ISA/US Bell-Harrist Commissioner for Patents 03 July 2006 (03.07.2006) P.O. Box 1450 Alexandria, Virginia 22313-1450

Telephone No. ((571) 272-1600

Form PCT/ISA/237 (cover sheet) (April 2005)

Facsimile No. (571) 273-3201

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International	application No	0.	
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PCT/IL05/01173

Box N	o. I Basis of this opinion	101/1603/011/3	
	o. 1 Dasis of this opinion		
1. With	regard to the language, this opinion has been established on the basis of:		
\boxtimes	the international application in the language in which it was filed		
	a translation of the international application into		
2. With r invent	egard to any nucleotide and/or amino acid sequence disclosed in the into ion, this opinion has been established on the basis of:	ernational application and necessary to the claimed	
a.	type of material		
	a sequence listing		
	table(s) related to the sequence listing		
Ъ.	format of material		
	on paper		
i	in electronic form		
c. t	time of filing/furnishing		
L	contained in the international application as filed.		
[filed together with the international application in electronic form.		
[furnished subsequently to this Authority for the purposes of search.		
	, Parposes of Scarcii.		
aį	n addition, in the case that more than one version or copy of a sequence list r furnished, the required statements that the information in the subsequer oplication as filed or does not go beyond the application as filed, as appropriate the sequence of the contract of th	ing and/or table(s) relating thereto has been filed at or additional copies is identical to that in the riate, were furnished.	
. Addition:	al comments:		
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PCT/ISA/	237(Box No. I) (April 2005)		

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/IL05/01173

industrially applicable have not been examined in respect of: the entire international application claims Nos. 7-1023 because: the said international application, or the said claim Nos. relate to the following subject matter which does not require an international search (specify): the said international application, or the said claim Nos. relate to the following subject matter which does not require an international search (specify): the description, claims or drawings (indicate particular elements below) or said claims Nos. 7-1023 are so unclear that no meaningful opinion could be formed (specify): Please Sec Continuation Sheet the claims, or said claims Nos. are so insdequately supported by the description that no meaningful opinion could be formed (specify): a meaningful opinion could not be formed without the sequence listing; the applicant did not, within the prescribed time limit: furnish a sequence listing on paper complying with the standard provided for in Annex C of the Administrative Instructions, and such listing was not available to the International Searching Authority in a form and manner acceptable to it. furnish a sequence listing in electronic form complying with the standard provided for in Annex C of the Administrative Instructions, and such listing was not available to the International Searching Authority in form and manner acceptable to it. pay the required late furnishing fee for the furnishing of a sequence listing in response to an invitation under Rules 13ter. 1(a) or (b). a meaningful opinion could not be formed without the tables related to the sequence listing; the applicant did not, within the prescribed time limit, furnish such tables in electronic form complying with the technical requirements provided for in Annex C of the Administrative Instructions, and such itables were not available to the International Searching Authority in a form and manner acceptable to it.		o. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability questions whether the claimed invention appears to be novel, to involve an inventive step (to be non-obvious), or to be strially applicable have not been examined in respect of:
claims Nos. 7-1025 because: the said international application, or the said claim Nos relate to the following subject matter which does not require an international search (specify): the description, claims or drawings (indicate particular elements below) or said claims Nos. 7-1025 are so unclear that no meaningful opinion could be formed (specify): Please See Continuation Sheet the claims, or said claims Nos are so inadequately supported by the description that no meaningful opinion could be formed (specify): no international search report has been established for said claims Nos a meaningful opinion could not be formed without the sequence listing: the applicant did not, within the prescribed time limit: furnish a sequence listing on paper complying with the standard provided for in Annex C of the Administrative Instructions, and such listing was not available to the International Searching Authority in a form and manner acceptable to it. put the requirements provided for in Annex C of the Administrative Instructions, and such listing was not available to the international Searching Authority in a form and manner acceptable to it. put the requirements provided for in Annex C of the Administrative Instructions, and such listing was not available to the international Searching and such ratio in the prescribed time limit, furnish such tables in electronic form complying with the technical requirements provided for in Annex C-bis of the Administrative Instructions, and such tables were not available to the Instructional Provided for in Annex C-bis of the Administrative Instructions, and such tables were not available to the Instructional Provided for in Annex C-bis of the Administrative Instructions, and such tables were not available to the Instructions, and such tables were not available to the Instructions and such tables were not available to the Lettonic form only, do not comply with the technical requirements provided for in Annex C-bis of the Administrative Instructions, and suc	indus	
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n PCT/ISA/237 (Box No. III) (April 2005)	See	Supplemental Box for further details.

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/IL05/01173

1. Statement	planations supporting such statement	
Novelty (N)	Claims 5 and 6	YES
	Claims 1-4	NO
Inventive step (IS)	Claims NONE	YES
	Claims 1-6	NO
Industrial applicability (IA)	Claims 1-6	YES
	Claims NONE	NO NO

Claims 5 and 6 meet the criteria set out in PCT Article 33(2) because the prior art does not teach the claim limitations as written.

Claims 1-4 lack novelty under PCT Article 33(2) as being anticipated by Contag et al (US Patent No. 6,638,752).

Contag et al disclose biodetectors targeted to specific ligands. The biodetectors are used for detecting and quantifying molecules in liquid, gas, or matrices. The method involves biodetectors comprising a molecular switching mechanism to express a reporter gene upon interaction with target substances. For example, imaging of the light emitting biodetector entities may involve the use of a photodetector. If necessary, localization of the signal may be determined by integrating photon emission until and image is constructed. Once a photon emission image is generated, it is typically superimposed on a normal reflected light image of the subject to provide a frame of reference for the source of the emitted photons. Such a composite image is then analyzed to determine the location and/or amount of a target in the subject. Simple quantitation of the numbers of photons emitted from a sample indicate the concentration of the light-emitting reporter. The number of photons would therefore be proportional to the amount of targeted ligand that a specific detector is sensing. Without the constraints imposed by the need for an image, detectors may be place in very close proximity to the light emitting biodetectors; thus, optimizing the optical detection and sensitivity of the assay. Microchannel plate intensifiers may be used in such a configuration resulting in single photon detection (see column 8, lines 28-68; column 9, lines 25-54; column 16, lines 13-52). The signals generated by photodetector devices which count photons need to be processed by an image processor in order to construct an image which can be, for example, displayed on a monitor or printed on a video printer. Such image processors are typically sold as part of systems which include the sensitive photon counting cameral. The image processors are usually connected to a personal computed (column 17, lines 28-46). The biodetectors may be used to diagnose diseases, detect clinically relevant substances, detect environmental contaminants, and detect food contaminants (column 18, line 28 through column 19, line 54). Thus, both Applicant and Contag et al disclose a method of radioactive emission measures of a structure wherein radioactive emission measurement of a body are determined; radioactive emission measurements are analyzed; and additional views for measurement are analyzed.

Claims 5 and 6 lack an inventive step under PCT Article 33(3) as being obvious over Contag et al (US Patent No. 6,638,752). Contag et al (see discussion above) fail to specifically state that the additional views comprising determining that a photon count at a given view yields a measurement error below a specified value. However, it would have been obvious to one of ordinary skill at the time the invention was made that the additional views would be analyzed for error below a specified value because a skilled practitioner in the art would recognize that the duplicate images at specified conditions would enable one to determine the standard of deviation and

Claims 1-6 meet the criteria set out in PCT Article 33 (4), and thus have industrial applicability because the subject matter claimed can

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

Form PCT/ISA/237 (Supplemental Box) (April 2005)

International application No. PCT/IL05/01173

Supplemental Box In case the space in any of the preceding boxes is not sufficient.	
Section III. Non-establishment of opinion (description/claims/drawings unclear	a
complete meaning of the claimed subject matter. In a state of the claimed subject matter.	t virtually impossible to determine the full scope and
of a body structure; a measurement unit for performing radioactive emission measureme	ed to a memod of radioactive emission measurements rements of a body structure; a method of measuring
drug formulation; a diagnositic kit; a method of imaging tissue; a method of obtaining multidimensional imaging in a plurality of travels a method of obtaining multidimensional imaging in a plurality of travels a method of obtaining the method of	ne parameters of a radiopharmaceutical in an organ; a ng image data; an apparatus for storing
kinetic parameters: a pharmaceutical substance, and as foul dassigning characteris	stics to a three dimensional imaging scan containing
Thus, the claims as written cannot be recorded as being a being a surfice.	for what invention/inventions protection is sought
perform a meaningful and timely search of the invention of	ore component combinations, it is impossible to
associated with viewing parameters relation to the	independent claim I wherein (a) the views is
count at a given view yields a measurement error below a specified error value which obtain a required error rate.	h comprises extending a duration of a current view to
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